Graphical symbols and supplemental warning markings are located on the back and bottom of the terminal.

**WARNING**

**TO REDUCE THE RISK OF FIRE OR SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Product identification and supply rating are provided on the label found on the bottom of the unit.

**IMPORTANT SAFETY INSTRUCTIONS**

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install according to the manufacturer’s instructions.
- Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

This manual includes the manufacturer’s recommended safeguards and all the information needed to connect your receiver to both your in-home IP network and your entertainment system. The safety and installation information was developed and provided primarily by the receiver manufacturer, ARRIS Enterprises, Inc.
Follow these important safety guidelines when positioning and connecting your receiver:

- Do not block the slots and openings.
- Do not place anything on top of the receiver.
- Do not position the receiver in a confined space, such as an enclosed cabinet, that does not provide adequate ventilation.
- Do not position the receiver near any external heat source that could raise the temperature around the unit. Do not place the receiver on top of another heat producing electronic device.
- Allow for adequate ventilation around the receiver to maintain normal operating temperature. Do not place it in a sealed enclosure without providing for adequate airflow.
- Use only the power adapter and cord supplied to connect the VIP5662 to your home AC power outlet.
- Do not plug the AC power adapter into a switched power outlet.
- Always transport the receiver in its original factory carton, or in an equally well-padded container.
- Whether installed or being transported, do not expose the receiver to temperature extremes. The temperature range for operation is from 0° to +40°C. The non-operating (transport or storage) temperature range is from -40° to +60°C.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. THE UNIT MUST NOT BE EXPOSED TO DRIPPING OR SPLASHING. DO NOT PLACE OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ON THE UNIT.

**CAUTION:** THIS PRODUCT WAS QUALIFIED UNDER TEST CONDITIONS THAT INCLUDED THE USE OF THE SUPPLIED CABLES BETWEEN SYSTEMS COMPONENTS. TO ENSURE REGULATORY AND SAFETY COMPLIANCE, USE ONLY THE PROVIDED POWER AND INTERFACE CABLES AND INSTALL THEM PROPERLY.

**CAUTION:** DIFFERENT TYPES OF CORD SETS MAY BE USED FOR CONNECTIONS TO THE MAIN SUPPLY CIRCUIT. USE ONLY A MAIN LINE CORD THAT COMPLIES WITH ALL APPLICABLE PRODUCT SAFETY REQUIREMENTS OF THE COUNTRY OF USE.

**CAUTION:** INSTALLATION OF THIS PRODUCT MUST BE IN ACCORDANCE WITH NATIONAL Wiring CODES AND CONFORM TO LOCAL REGULATIONS.

**CAUTION:** DO NOT OPEN THE UNIT. DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE INSTALLATION AND TROUBLESHOOTING INSTRUCTIONS. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.

**CAUTION:** CHANGES AND MODIFICATIONS NOT EXPRESSLY APPROVED BY ARRIS FOR COMPLIANCE COULD VOID USER’S AUTHORITY TO OPERATE THE EQUIPMENT.
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Introduction

Congratulations on receiving your ARRIS VIP5662 IPTV Receiver.

The VIP5662 provides these extraordinary home entertainment features:

- Ultra High Definition TV (UHDTV), with up to twice the color resolution and up to six times the sharpness of standard TV when connected to a UHD-capable TV
- A direct digital connection to consumer audio and video devices through multiple interfaces
- Bluetooth connectivity via remote control unit. Refer to your service provider for more information

This installation manual introduces the basic features, outlines important safeguards, and provides options for integrating your receiver into your entertainment system. Please take a few moments to read through this manual. Its configuration diagrams and troubleshooting section will help you make the most of your home entertainment experience.

Included in the carton:

- VIP5662 Ultra High-Definition (UHD)
- Power adapter
- Other accessories may be included

For more information about your TV service, refer to the other documentation from your service provider.

Wired Connection

Plug the power adapter into a wall socket and into the rear panel of the receiver. Plug an Ethernet cable into the network port of the receiver. Verify the following:

- The Ethernet LEDs located on the rear panel light and behave as indicated on page 3 of this manual
- The link LED located on the front panel lights and behaves as indicated on page 2 of this manual.
Overview

Top and Front Panel

The illustrations below (Top view and Front Panel view, respectively) and the table following describe the top/front-panel features, controls, and indicator lights.

<table>
<thead>
<tr>
<th>Key</th>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>POWER BUTTON</td>
<td>Press to turn the receiver on or place the unit in standby mode. If held for five (5) seconds or longer, restarts the receiver.</td>
</tr>
<tr>
<td>2</td>
<td>LINK</td>
<td>- No light: No Ethernet connection (Off)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Blinking green: Receiver connecting to network</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Solid green: Network connection enabled (On)</td>
</tr>
<tr>
<td>3</td>
<td>BLUETOOTH</td>
<td>No light: No bluetooth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blinking blue: Receiver is pairing with the RCU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solid blue: Receiver is paired with the RCU</td>
</tr>
<tr>
<td>4</td>
<td>RECORD</td>
<td>No light: Not recording</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solid red: Recording is in progress</td>
</tr>
<tr>
<td>5</td>
<td>POWER</td>
<td>No light: Receiver is off</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solid green: Receiver is on</td>
</tr>
</tbody>
</table>
Overview

Rear Panel

The illustration below and the table following list the rear-panel features, controls, and connectors of the VIP5662.

<table>
<thead>
<tr>
<th>Key</th>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>POWER +12 VDC</td>
<td>Connector for the DC power adapter. Use only the adapter specified for this VIP5662.</td>
</tr>
<tr>
<td>2</td>
<td>RESET BUTTON</td>
<td>Press and release to trigger the System Recovery Process.</td>
</tr>
<tr>
<td>3</td>
<td>OPTICAL</td>
<td>TOSLink (S/PDIF) digital audio output.</td>
</tr>
<tr>
<td>4</td>
<td>BREAKOUT CABLE CONNECTION</td>
<td>Alternative method for video/audio connections. Offers analog component, composite, and stereo audio outputs.</td>
</tr>
<tr>
<td>5</td>
<td>HDMI™ OUT</td>
<td>Connects to a High Definition TV or home theater receiver with an HDMI input (for a DVI input, use an HDMI-to-DVI adapter).</td>
</tr>
<tr>
<td>6</td>
<td>USB 3.0</td>
<td>Allows connectivity with USB 3.0 devices.</td>
</tr>
<tr>
<td>7</td>
<td>NETWORK</td>
<td>Ethernet 10/100/1000Base-T RJ-45 port. Link LED: Lights green when Ethernet connection detected. Activity LED: Flashes amber with data traffic.</td>
</tr>
<tr>
<td>8</td>
<td>BLUETOOTH PAIRING</td>
<td>Press and release to initiate Bluetooth remote control unit pairing with receiver. Hold the button for 10 seconds to unpair the Bluetooth remote control unit and the receiver.</td>
</tr>
</tbody>
</table>
To remove the Hard Drive from the VIP5662, perform the following procedure:

1. Turn unit off.
2. Flip unit upside down.
3. Grip levers on either side of hard drive compartment and squeeze to release.
4. Slide hard drive out of compartment then lift up to remove.
To insert the Hard Drive into the VIP5662, perform the following procedure:

1. Turn unit off.
2. Flip unit upside down.
3. Slide hard drive cover-side up into compartment until you hear it click.
Connecting Your TV Receiver

This section describes alternative methods for connecting the VIP5662 to your home entertainment system.

Instructions and diagrams are included for the following connections:

- Digital Audio/Video
- Component Video and Digital Audio
- Composite Video and Stereo Audio

Before you move or change components on your entertainment system, always disconnect power from the receiver.

Connection Options

The VIP5662 offers the following video outputs:

<table>
<thead>
<tr>
<th>Ultra HDTV</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDTV</td>
<td>HDMI, Component (cable not included)</td>
</tr>
<tr>
<td>Standard</td>
<td>HDMI, Composite or Component (cables not included)</td>
</tr>
</tbody>
</table>

To determine the available inputs on your TV, check the manual supplied with the TV or on the TV itself. Use the following guidelines to determine the best connections for your system. Use one of the following.

<table>
<thead>
<tr>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>HDMI offers higher video quality than component video. If your HDTV has an HDMI input, use the HDMI connector. HDMI provides both digital video and digital audio (including Dolby® Digital 5.1 Surround Sound). No other connections are necessary. If your HDTV has a DVI input, you can use an HDMI-to-DVI converter cable to connect to the VIP5662W HDMI connector. Use a cable with an HDMI connector on one end and a DVI connector on the other end. We do not recommend using an HDMI-to-DVI or DVI-to-HDMI adapter. Because DVI does not carry audio, a separate audio connection is required for a DVI TV. If your TV has an optical S/PDIF audio connection, use the OPTICAL connection. Otherwise, use the baseband AUDIO L and R connections.</td>
</tr>
</tbody>
</table>
Connecting Your TV Receiver

<table>
<thead>
<tr>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Component</strong></td>
<td>The component outputs provide component video outputs using the three standard video connections: Y, Pb, Pr (green, blue, red).</td>
</tr>
<tr>
<td><img src="image" alt="Component" /></td>
<td><img src="image" alt="Component" /></td>
</tr>
<tr>
<td><strong>Standard-Definition</strong></td>
<td>The Audio +Composite output provides both composite video and baseband stereo audio using RCA connectors. Composite video provides a Standard-Definition analog video signal using the video RCA connector (yellow) and the stereo audio RCA connectors (white/left, red/right).</td>
</tr>
<tr>
<td><img src="image" alt="Standard-Definition" /></td>
<td><img src="image" alt="Standard-Definition" /></td>
</tr>
<tr>
<td><strong>Optical Audio</strong></td>
<td>If your equipment supports an optical S/PDIF audio connection, use the OPTICAL connection for the audio.</td>
</tr>
<tr>
<td><img src="image" alt="Optical Audio" /></td>
<td><img src="image" alt="Optical Audio" /></td>
</tr>
</tbody>
</table>

Common Cabling Examples

The following cabling diagrams illustrate common sample audio/video (A/V) connections. When connecting other components to your receiver, refer to the other component installation manuals for additional connection information.
Digital Audio/Video Connections

- If your HDTV has an HDMI input, connect an HDMI cable to the HDMI connector as shown. The HDMI connection carries both digital video and digital audio signals.
- If your HDTV has a DVI input, you can use an HDMI-to-DVI converter to connect to the VIP5662 HDMI connector. DVI video carries video signals only. Use the optical audio or stereo audio connectors to provide audio output.
If you use a DVI video input to connect to your TV, you will need to provide a separate connection for the audio. Use the OPTICAL S/PDIF output, which offers digital audio quality, including support for Dolby Digital 5.1 Surround Sound.

If your HDTV has component inputs available, connect the component outputs from a Breakout cable to the correct inputs on your HDTV (as shown).

If your HDTV or A/V receiver has an optical audio input available, use a Digital Optical Audio cable to connect from the VIP5662 to the correct input on your HDTV or receiver (as shown).

NOTE: If you choose to configure stereo audio instead of digital audio, connect the composite outputs for Audio Left and Audio Right rather that the Optical Audio, as shown.
If your HDTV has composite video and analog stereo inputs, connect the composite outputs using a Breakout cable to the correct inputs on your HDTV (as shown).

Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.
## Troubleshooting

Before calling your service provider, review this troubleshooting guide and your RCU users guide. If the suggestions do not help you quickly solve a problem, contact your service provider.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The receiver will not power on.</strong></td>
<td>Verify that the power adapter is connected to the receiver and an AC outlet. Unplug the wireless receiver from the AC outlet, plug it back in, and press the POWER button. If the receiver is connected to a switched outlet on a wall or another unit, verify the switch or unit is powered on. Press the POWER button on the receiver front panel instead of the remote control. The batteries in the remote control may be depleted.</td>
</tr>
<tr>
<td><strong>The remote control does not work.</strong></td>
<td>Verify that the TV is on. Verify that the STB mode LED on the remote control is lit. Verify that there are no obstructions between the remote control and the receiver. Aim the remote control directly at the receiver front panel, not the TV or VCR. The angle between the remote control and the receiver may be too large. Stand in front of the receiver and not too far to either side. Press and release operation keys one at a time, firmly and deliberately. Check the batteries in the remote control. Install new batteries if needed.</td>
</tr>
<tr>
<td><strong>Video or audio quality is poor or missing.</strong></td>
<td>To improve video quality, upgrade your connection (from composite analog to component+digital audio to HDMI).</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| There is no audio when viewing TV channels.                            | Verify that the Mute button on the remote control has not been pressed. Press Mute on the remote control to restore sound.  
If the receiver audio output is connected to the TV, verify that the Mute button on the TV has not been pressed.  
If the receiver audio output is connected to a home theater receiver, verify that the home theater receiver is set to the appropriate input source and its Mute button has not been pressed.  
Verify that you have the correct cables for the audio ports.  
Verify that the audio cables are firmly connected between the receiver and the audio playback device (TV, home theater receiver, etc.). |
| There is no audio from the center and/or surround speakers of a home theater receiver connected to the receiver. | Not all Dolby Digital programs feature full 5.1 surround sound. In some cases, the programs may only contain left and right stereo audio.  
Verify that the Optical S/PDIF cable is firmly connected to the wireless receiver and the home theater receiver.  
Verify that the home theater receiver is set to a surround sound audio mode (Dolby Digital, Dolby Pro Logic® II, Dolby Pro Logic).  
Verify that the home theater receiver is properly configured to work with all connected speakers. |
Federal Communications Commission Radio and Television Interference Statement for a Class 'B' Device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from the one the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modification not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: Radiation Exposure Statement.

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code selection feature to be disabled for products marketed to the US/CANADA. Operation of this device is restricted to indoor use only.

FCC Declaration of Conformity

According to 47 CFR, Parts 2 and 15 for Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers, ARRIS Enterprises, Inc, 3871 Lakefield Drive, Suwanee, Georgia 30024, declares under sole responsibility that the product identifies with 47 CFR Part 2 and 15 of the FCC Rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47 CFR 2.909. Operation is subject to the following condition: This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47 CFR, Paragraphs 15.101 to 15.109.

Innovation, Science and Economic Development Canada statement;

This device complies with Innovation, Science and Economic Development Canada’s licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:
1) l’appareil ne doit pas produire de brouillage;
2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Canadian Compliance

This Class B digital device complies with Canadian ICES 003. Cet appareil numérique de la classe B est conforme à la norme NMB 003 du Canada.

IMPORTANT NOTE: Canada Radiation Exposure Statement

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that necessary for successful communication.
NOTE IMPORTANTE: (Pour l’utilisation de dispositifs mobiles)
Déclaration d’exposition aux radiations

Cet équipement est conforme Canada limites d’exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

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ARRIS Enterprises, Inc. ("ARRIS")
3871 Lakefield Drive
Suwanee, Georgia 30024, USA

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ARRIS IPTV Set-top Model VIP5602/5662

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ARRIS Software Pedigree Operations
2450 Walsh Avenue, Santa Clara, CA 95051, USA

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Broadcom CFE

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MEMTEST

Description: General-purpose memory testing functions.

Notes: Some of the constants in this file are specific to Arcon’s Target188EB hardware. This software can be easily ported to systems with different data bus widths by redefining ‘datum’.

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